Somerset Community College Radiography
Outcomes Assessment
2012-2013

Goal #1 The student will exhibit critical thinking and problem solving skills.

OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
Selection of manual technical factors appropriate the patient/situation	Lab practical exams 1 & 2 in IMG 114 Image Production andAcquisition	Students will average ≥85% on practical exams	1st semester	Didactic/Lab instructor	Fall 2010: 90.5% Sum 2011: 86.2% Fall 2011: 85.6% Spring 2012: 89.8% Summer 2012: 87.0% Fall 2012: 89.9% Spring 2013: n/a	Benchmark met Benchmark met Benchmark met Benchmark met Benchmark met Benchmark met Course not offered
	Clinical Competency Forms; item # 7-10, (random sampling during Clinical Practice I through V)	85% will receive "Yes" response on all four items (Yes/No scale)	5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 100% Summer 2012: 100% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark met Benchmark met Benchmark met Benchmark met
Use of positioning appropriate for the patient/ situation	Lab practical exams in IMG 108 Radiographic Procedures I	Students will average ≥ 85% on practical exams	1st semester	Didactic/Lab instructor	Fall 2010: 87.3% Sum 2011: 91.5% Fall 2011: n/a Spring 2012: 90.6%	Benchmark met Benchmark met No data available Benchmark met

					Summer 2012: 87.9% Fall 2012: 91.7%	Benchmark met Benchmark met
	Lab practical exams in IMG 118 Radiographic Procedures II	Students will average ≥ 85% on practical exams	2nd semester	Didactic/Lab instructor	Spring 2011: 90.4% Spring 2012: 82% Sum 2012: 79.0% Fall 2012: 90.1% Spring 2012: 90.1% Summer 2012: 78.9 Fall 2012: 86.5% Spring 2013: 93.8%	Benchmark met Benchmark not met Benchmark not met Benchmark met Benchmark met Benchmark not met Benchmark met Benchmark met
	Clinical Competency Form; item # 17, 21, and 27, (random sampling during Clinical Practice I through V)	85% will receive "Yes" response on all three items (Yes/No scale)	5th semester	Clinical Instructor	Spring 2011: 95% Spring 2012: 69% Spring 2013: 96.7%	Benchmark met Benchmark not met Benchmark met
Manipulation of equipment appropriate for patient/situation	Lab practical exams in IMG 214 Radiographic Equipment	Students will average ≥ 85% on practical exams	2nd semester	Didactic/Lab instructor	Spring 2011: 81.5% Fall 2011: 85.3% Spring 2012: 88.4% Fall 2012: 80.3% Fall 2012: 80.5% Spring 2013: 79.1%	Benchmark not met Benchmark met Benchmark met Benchmark not met Benchmark not met Benchmark not met

	Clinical Competency Form; item # 11, 12, 13, 23, and 26, (random sampling during Clinical Practice I through V)	85% will receive "Yes" response on all five items (Yes/No scale)	5th semester	Clinical Instructor	Spring 2011: 94% Spring 2012: 62% Spring 2013: 96.4%	Benchmark met Benchmark not met Benchmark met
Interaction with patient that is appropriate for the patient/situation	Patient care scenarios in IMG 106 Patient Care	Students will average ≥ 85% on practical exams	1st semester	Didactic Instructor	Fall 2010: 93.8% Spring 2011: 100% Sum 2011: 95.8% Fall 2011: 92.1% Fall 2012: 89.8%	Benchmark met Benchmark met Benchmark met Benchmark met Benchmark met
	Patient care assessment practical exam in RADI 228 Radiography Seminar	Students will average ≥ 85% on practical exams	5th semester	Didactic Instructor	Spring 2012:Pass/Fail 100% passed Fall 2012: Pass/Fail 100% passed Spring 2013:Pass/Fail 100% passed	Benchmark met Benchmark met Benchmark met

Goal #2 The student will utilize effective oral, written and interpersonal communication skills.

OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
The student will utilize effective written communication skills	Written assignment—Pathology Topic	Students will average $\geq$ 85% on pathology written assignment	During the program	Didactic Instructor	Fall 2010: 96.7% Fall 2011: 92.5% Spring 2012: 94.3% Spring 2013: 97.5%	Benchmark met Benchmark met Benchmark met Benchmark met
	Written assignment—Radiation Biology Topic	Students will average $\geq$ 85% on pathology written assignment	During the program	Didactic Instructor	Spring 2011: 95.4% Fall 2011: 88.4% Spring 2012: 100% Spring 2013: 95%	Benchmark met Benchmark met Benchmark met Benchmark met
	Written assignment—Ethics Topic	Students will average $\geq$ 85% on ethics written assignment	During the program	Didactic Instructor	Spring 2011: 96.3% Sum 2011: 98% Fall 2011: 90.6% Spring 2012: 92.1% Fall 2012: 100%	Benchmark met Benchmark met Benchmark met Benchmark met Benchmark met

	Patient history writing component of competency evaluation form	95% will receive the maximum 3 points (0-3 scale)	During the program	Clinical Instructor	Spring 2011: 96.43% Spring 2012: 92.3% Sum 2012: 60.4% Fall 2012: 75.0% Spring 2013: 79.1%	Benchmark met Benchmark not met Benchmark not met Benchmark not met Benchmark not met
The student will utilize effective oral communication skills	Oral presentation—Pathology Case Study	Students will average $\geq$ 85% on pathology oral presentation	During the program	Didactic Instructor	Fall 2010: 98.9% Fall 2011: 93.9% Spring 2012: 93.3% Spring 2013: 95.0%	Benchmark met Benchmark met Benchmark met Benchmark met
	Oral presentation—Radiation Biology Topic	Students will average $\geq$ 85% on specials oral presentation	During the program	Didactic Instructor	Spring 2011: 98.8% Fall 2011: 94% Spring 2012: 93.3% Spring 2013: 88.3%	Benchmark met Benchmark met Benchmark met Benchmark met

	Oral presentation—CT Case Study	Students will average $\geq$ 85% on CT oral presentation	During the program	Didactic Instructor	Fall 2010: No data available Spring 2012: 100% Spring 2013: 97%	Assignment was not given Benchmark met Benchmark met
The student will utilize effective interpersonal communication skills	Clinical Competency Form; item # 3-6, 18, 20 and 24, (random sampling during Clinical Practice II)	75% will receive "Yes" response on all nine items (Yes/No scale)	2nd semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 100% Summer 2012: 100% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark met Benchmark met Benchmark met Benchmark met
	Clinical Competency Form; item# 3-6, 18, 20 and 24, (random sampling during Clinical Practice V)	85% will receive "Yes" response on all nine items (Yes/No scale)	5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 100% Sum 2012: 100% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark met Benchmark met Benchmark met Benchmark met

	Student Performance Evaluation Form; items # 4, 9, 14, and 15, (random sampling during Clinical Practice V)	85% will receive a score $\geq$ 3 on all four items (scale 0-4)	5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 100% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark met Benchmark met Benchmark met

Goal #3 The student will demonstrate professionalism.

OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
The student will exhibit professionalism in the clinical setting.	Student Performance Evaluation form; item # 1, 5, 7, and 16, (random sampling throughout the clinical practice component of the program)	85% will receive a score of $\geq$ 2 on all four items (scale 0-4)	Annually; 5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 95.5% Spring 2013: 100%	Benchmark met Benchmark met Benchmark met
The student will construct a post-graduation career plan	Five year career plan assignment during IMG 228 Radiography Seminar; (describing career goals, the importance of continued professional growth, and benefits of involvement in professional societies)	Students will average $\geq$ 85% on 5-year career plan assignment	Annually; 5th semester	Didactic Instructor	Spring 2011: 100% Spring 2012: 100% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark met Benchmark met Benchmark met
Students will demonstrate professionalism on the job after graduation	Employer Survey	95% of Employers will indicated "Yes" that the graduate demonstrate professionalism (Yes or No scale)	Annually; 9 months after graduation	Program Director	Fall 2011: 100% Fall 2012: 100% Fall 2013: pending	Benchmark met Benchmark met pending

Goal #4 The student will develop clinical performance skills and competencies of an entry level radiographer.

OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
The student will apply accurate positioning skills	Clinical Competency Form; item #17 (random sampling during Clinical Practice V)	85% will receive "Yes" response (Yes/No scale)	Annually; 5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 33.3% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark not met Benchmark met Benchmark met
	Image and Procedures Form; Patient/Part Position Critique component of the form (random sampling during Clinical Practice V)	The student will receive a score $\geq$ 10 (scale of 0-12.5)	Annually; 5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 66.6% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark not met Benchmark met Benchmark met
The student will select appropriate technical factors	Clinical Competency Forms; item # 7-10, (random sampling during Clinical Practice V)	85% will receive "Yes" response on all four items (Yes/No scale)	Annually; 5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 100% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark met Benchmark met Benchmark met
	Image and Procedure Form; Selection of Technical Factors-Critique component of the form (random sampling during Clinical Practice V)	The student will receive a score $\geq$ 6 (scale of 0-8)	Annually; 5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 66% Fall 2012: 100% Spring 2013: 80.5%	Benchmark Benchmark not met Benchmark met Benchmark not met

The student will utilize standard radiation safety practices	Clinical Competency Form; item # 16, 31 and 32, (random sampling during Clinical Practice V)	95% will receive a "Yes" response on all three items (Yes/No scale)	Annually; 5th semester	Clinical Instructor	Spring 2011: 95.24% Spring 2012: 66.6% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark not met Benchmark met Benchmark met
The student will employ appropriate documentation in the clinical setting	Clinical Competency Form; item# 25 and 26, (random sampling during Clinical Practice V)	85% will receive a "Yes" response on both items (Yes/No scale)	Annually; 5th semester	Clinical Instructor	Spring 2011: 100% Spring 2012: 100% Fall 2012: 100% Spring 2013: 100%	Benchmark met Benchmark met Benchmark met Benchmark met

Goal #5 The program will continually monitor its effectiveness in graduating entry level radiographers.

OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
Students admitted into the program will graduate in 21 months	Program graduation rate	70% graduation rate	Annually; May of each year	Program Director	2008: 15/18 83% 2009: 13/18 72% 2010: 12/18 67% 2011: 14/19 74% May 2012: 13/19 68% Dec 2012: 2/7 29% May 2013: 6/8 75%	2008: Benchmark met 2009: Benchmark not met; all five students withdrew from the program during the first semester when two courses were being taught via interactive television; that status has changed. 2010: Benchmark not met; see attached action plan 2011: Benchmark not met; see action plan May2012:Benchmark not met; continue action plan Dec 2012:Benchmark not met; continue action plan May 2013: Benchmark met
Graduates of the program will be academically prepared to pass the ARRT examination	ARRT Registry Examination results as reported by the ARRT	85% first attempt pass rate on the ARRT registry exam	Annually; after May graduation	Program Director	2008: 13/14 93% 2009: 13/13 100% 2010: 12/12 100% 2011: 14/14 100% 2012: 13/13 100% 2013 (May) 6/6 100%	2008: Benchmark met 2009: Benchmark met 2010: Benchmark met 2011: Benchmark met 2012: Benchmark met 2013: Benchmark met (to May)
Graduates of the program will be capable of finding jobs as entry-level radiographers	Graduate survey	75% of graduates seeking employment will be employed within six months of	Annually; six months after graduation (Nov of each year)	Program Director	2008: 13/15 87% 2009: 13/15 87% 2010: 6/12 50%	2008: Benchmark met 2009: Benchmark met 2010: Benchmark not met: see attached action plan

		graduation			2011: 6/14 43% 2012 13/15* 87% 2013: pending	2011: Benchmark not met: continue action plan 2012: Benchmark met 2013 pending
Graduates will indicate an overall satisfaction with their educational experience in the program	Graduate survey	90% of respondents will report an overall satisfaction with the program (Positive Neutral Negative –scale)	Annually; May of each year	Program Director	2008: 7/7 100% 2009: 10/10 100% 2010: 6/6 100% 2011: 3/3 100% 2012: 6/6 100% 2013: pending	2008: Benchmark met 2009: Benchmark met 2010: Benchmark met 2011: Benchmark met 2012: Benchmark met 2013: pending
Employers of graduates will indicate an overall satisfaction with the program graduates	Employer survey	90% of respondents will report an overall satisfaction with employees that are program graduates (Positive Neutral Negative –scale)	Annually; nine months after graduation (the next February following graduation)	Program Director	2008: 7/6 ½** 93% 2009: 4/4 100% 2010: 3/3 100% 2011: 6/6 100% 2012: 2/2 100% 2013: pending	2008: Benchmark met 2009: Benchmark met 2010: Benchmark met 2011: Benchmark met 2012: Benchmark met 2013: pending

* Eight graduates found employment within six months & four continued their education on a full-time basis and did not seek employment; one refused a job due to driving distance.

**One employer was happy with one graduate and not completely satisfied with a second graduate.